

LOI and Full Proposal Outline:

- 1) Introduction/Motivation (Dave S. and Geoff - use present proposal's intro as starting point)
- 2) Why isn't existing Hadro-Production data (MIPP) useful (Lang)
- 3) Flux Predictions for Neutrino Experiments at Fermilab (Summary for LOI)

The NuMI Neutrino Beam:

- Beamline Description (Dave S.)
- Experiments in the NuMI Neutrino Beam
 - MINOS (Karol)
 - MINERvA (Dave S.)
 - NovA (??)

The Long-Baseline Neutrino Experiment Neutrino Beam

- LBNE (Geoff and Christopher M.)

The Booster Neutrino Beam (BNB) (Geoff)

- Beamline Description
- Experiments in the Booster Neutrino Beam

6) NA61 Run Plan Proposal

- What runs and statistics are needed to improve flux predictions (coord. Dave S.)
- Possible 120 GeV thin target run this summer (Geoff?)

7) Project Time-line (Vittorio with input from Dave, Karol)

8) Required commitments both by NA61 and to satisfy our needs.

- Who? How?- redirection and additional funds. What effect will the redirection of resources have on existing commitments (Vittorio)
- Access to target(s)

9) Conclusion and Summary (Karol)

LOI and Full Proposal Outline (cont.) :

→ **We will use LaTeX!**

→ **Dave S. has setup a Redmine page with associated CVS repository here:**

<https://cdcvns.fnal.gov/redmine/projects/us-na61>

If you go to the 'Wiki' tab, info about the CVS repository is listed.

→ **I will post the LaTeX template this weekend – sorry I haven't done this yet..**

→ Please post a first version of your sections for LOI by March 7, 2012 5pm CT.

→ Would like to shoot for Friday March 23 for final version of LOI to be sent to Alan

→ Editors: Dave S., Karol and Vittorio

The MIPP Question:

Letter from Karol:

Hi,

As Geoff and Mike know and heard, I gave a talk at the MINOS+ Collaboration meeting about plans to pursue the US participation in the NA61 experiment. Mark Messier and Gary Feldman were there so I had a chance to chat with them about MIPP since Mark, just as Jon, stated that with 15 man-years one could finish the MIPP analysis. I must admit that from these separate conversations I am less clear what to think. I remain skeptical but I believe that we should further inform ourselves and explore what may be real behind their claims. Also, Mike suggested, and I concur, that we should consider revisiting this issue with Mark, Jon, and Gary in a meeting where we could pose serious questions.

The point is this:

- 1) Mark claims that the "detector analysis" is done and all data is on DST's and it would be straightforward to analyze it. One then can ask: so why it has not been?
- 2) Gary did not know much about the current status but suggested that we should look into the expected precision. He was not sure but thought that both of his students (Sharon and Andrei) did most of work for cross-sections modulo the normalization.
- 3) Despite what Jon said about his possible plans for MIPP analysis, he may be pushing what ANL would go with.
- 4) Perhaps one could consider somehow blending the two issues into one proposal? Clearly, this would be tricky but if one could show that one experiment reinforces the other. After all - we want to get things right!

Karol

Dave S has setup an US NA61 mailing list::

→ The list is called "USNA61". Instructions are here:

<http://listserv.fnal.gov/users.asp#subscribe> to list

→ If you go to the 'Wiki' tab, info about the mailing list is listed.

Thanks to all those of you who filled out the doodle poll for a new meeting time.

→ The result of the doodle poll will not please everyone and I apologize to those of you that will be unable to make the new time.

→ The best time and day is Thursday 2-3pm US CT.

→ Next meeting on March 1

→ For those of you unable to attend I will take meeting notes and forward them to the full group.

→ I received one request for slight time change: “If we moved it a half hour earlier to a 1:30 CT start I could make the first half hour...”

→ OK?

Updated Summary of NA61 Commitment Questionnaire:

- To get a more quantitative understanding of the level of commitment from US institutions to the NA61 effort a questionnaire was mailed out last week.
- Thanks to those of you who filled out the form. So Far:

		Senior Personnel (Fraction FTE)		Post Docs (Fraction FTE)		Graduate Students (Fraction FTE)		NA61 Specific Travel Costs (\$K)		
Total										
	FY2 012	1.25		1.3		1.55		38		
	FY2 013	1.65		2.1		3.25		68.4		
	FY2 014- 15	1.95		2.75		3.75		66		